

ARM Nauru Research Station
Site Visit 0603N Report

Visit Duration: 24 March to 31 March 2006

Nauru Island, Republic of Nauru

SV-0603N

Site: Nauru	Proposed Dates on Site: 24 - 31 March
Team Members: Troy Culgan John Glowacki	Ship or hand carry prior to SV: AERI UPS batteries (APC SU2200NET), CEIL internal batteries (hand-carry by BOM)
	Safety: Major Hazards: Caustic chemicals (KOH), Explosive gas (H2), AC electricity Hazard Controls: BOM Electrolyser Handbook, BM Electrolyser Operations/Maintenance Training, ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2-man rule
	Reminder: When replacing items (e.g., desiccant, filters, etc.), record and report the quantity of spares left on site.

Site Tasks

Priority	System	Date Completed (dd/Month)	Service Time in Hours	Tasks/Assoc Hazards-Controls For each priority item insert new line(row) for each date/time entry
1	MPL			Increase diode current as per mentor's instruction
		29-Mar	2	Adjusted current as per mentor's instruction, mentor to check and advise of any further requirements.
		30-Mar	1	Confirmed adjustments with mentor
2	MPL			Change out shutter timer batteries (AA)
		26-Mar	1	Shutter timer batteries changed
3	DS			Take inventory of routers and report serial numbers
		26-Mar		To be included in Audit out item 20
4	TRK			Adjust for evening drift
		27-Mar	2	Tracker parameters checked, time adjusted (2 min out), Sun sensor alignment checked and adjusted. Will continue to monitor tracker over the next few days.
		31-Mar	2	Checked tracker alignment during the past few days and all appears correct
5	CIMEL			Change out battery
		27-Mar	1	Shipment has not arrived, flashed battery as per advice from Rex. Franklin given instruction on how to change out battery when it arrives.
6	HVAC			Service and cleaning - AE Smith?
		25-Mar	1	AE Smith not on this site visit
7	CEIL			Change out internal battery
		25-Mar	1	Ceilometer battery changed out at 21:30 24 Mar 06 utc
8	ES&H			Change out all fire extinguishers
		25-Mar	1	Extinguishers in transit
9	ES&H			Change out defibrillator pads
		27-Mar		Shipment has not arrived.

10	ES&H			Change out eye wash fluid in H- and U-Vans
		25-Mar	1	Eye wash fluid changed out in H and U vans
11	BBSS			Change out gas analyzer sensor cell
		26-Mar	1	Reference manufacturers instruction manual for 311PC percent oxygen analyzer, cell should only be replaced when faulty, that is when the instrument is unable to be calibrated.
12	MMCR			Change out antenna heater filters
		25-Mar	1	Heater filters replaced
13	MMCR			Change out antenna heater power supply
		25-Mar	1	Power supply inspected and correct, there is no spare on site.
14	MMCR			Change out TWTA desiccant
		25-Mar	1	Desiccant changed
15	MWR			Replace heater/fan assembly
		25-Mar	4	Heater fan assembly replaced, Teflon window also replaced as inspection found old to be split. Commenced 22:00 24 Mar utc: completed and back on line at 01:23 25 Mar utc. MWR monitor replaced due to intermittent fault on monitor (display would go blank), new monitor is a Dell serial number GKWM
16	AERI			Change out UPS batteries (APC SU2200NET)
		25-Mar	1	Not required as UPS was changed out. Observers replaced UPS with a Powerware 9120, Model PW 9120 2000 ser no: RV121A0086.Old UPS inspected found control board with burnt components assessed as beyond economical repair. (old UPS APC 2200 Model SU2200NET Ser No: ES9740925676)
		27-Mar		AERI external air filter cleaned
19	Observer PC			Observer PC, check for Viruses
		24-Mar	3	Observer PC found to have Ravmon virus which has removed the anti virus protection, temporary installation of AVG anti virus installed.
		31-Mar	2	Installed Norton anti virus and performed updates on observer computer
20	Audit Out			Perform Audit Out for verification
		28-Mar	2	In Progress
		29-Mar	3	Audit out complete and emailed for comment
21	H2Gen			Perform Electrolyser Maintenance
		26-Mar	8	Electrolyser maintenance complete
		27-Mar	2	RBL maintenance complete
22	Airport Site			Check instrument level
		27-Mar	2	Instruments level adjusted
		27-Mar	2	Inspect Geo science Australia UPS (goodwill)
23	SDS			NFS and Collector BIOS upgrade
			3	Performed BIOS upgrade in accordance with instructions from Rex Pearson and Ron Reed (collector CD ROM drive faulty and was swapped with drive from NFS)
17	SHIPPING			List items to be shipped following visit
				MWR heater/fan
				TSI mirror

				Faulty RS92 sondes
				Faulty hard drives from array (attn Ron Reed)
18	FUTURE NEEDS			List items needed for future visits (spares, etc.)
				Eyewash solution (has been purchased, requires shipping from Darwin)
				Replacement blower fan for electrolyser cabinet (spare)
				ION exchange resin (electrolyser water treatment)
				MWR teflon window
				Require CD ROM drive for NFS